



70-465^{Q&As}

Designing Database Solutions for Microsoft SQL Server

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QUESTION 1

You have a server named SQL1 that has SQL Server 2014 installed. SQL1 hosts a database named Database! Database1 contains a table named Table1.

Table1 is partitioned across five filegroups based on the TransactionType field.

The schema of Table1 is configured as shown in the following table.

Column	Data type
ID	Bigint
Account	Bigint
Amount	Decimal
TransactionType	Int
TransactionDate	Date

Table1 contains the indexes shown in the following table.

Index	Type	Column
PK_Table1	Clustered, primary key	ID, TransactionType
IX_Account	Nonclustered	Account
IX_Type	Nonclustered	TransactionType
IX_Date	Nonclustered	TransactionDate
IX_Amount	Nonclustered	Amount

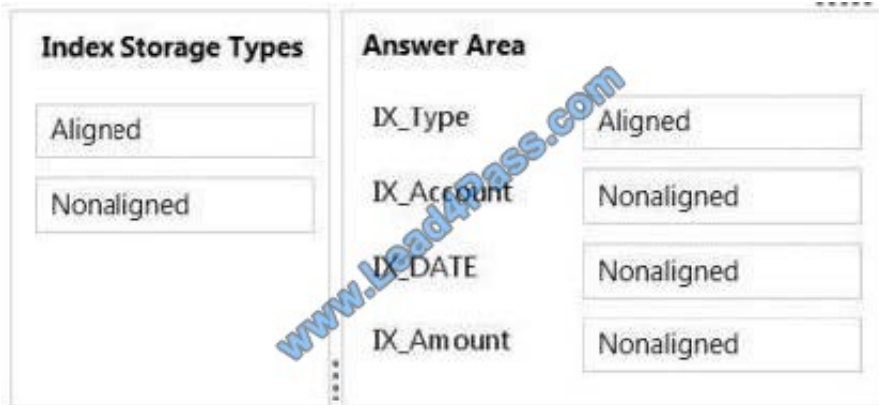
You need to recommend an index strategy to maximize performance for the queries that consume the indexes available to Table1.

Which type of index storage should you recommend? To answer, drag the appropriate index storage type to the correct index in the answer area.

Select and Place:

The screenshot shows a drag-and-drop interface. On the left, under the heading "Index Storage Types", there are two options: "Aligned" and "Nonaligned". On the right, under the heading "Answer Area", there are four index names listed vertically: IX_Type, IX_Account, IX_DATE, and IX_Amount. Next to each index name is a dropdown menu labeled "Index Storage Type".

Correct Answer:



Note:

Index Storage Type

* Designing a partitioned index independently (unaligned) of the base table can be useful in the following cases:

/The base table has not been partitioned.

/The index key is unique and it does not contain the partitioning column of the table. / You want the base table to participate in collocated joins with more tables g different join columns.

QUESTION 2

You plan to deploy a database by using SQL Server 2014.

Your company identifies the following requirements for the database:

The name of all stored procedures must start with "usp_"always.

All distribution statistics must be updated daily.

You need to identify which feature must be used to meet each database requirement.

Which features should you identify? To answer, drag the appropriate feature to the correct database requirement in the answer area.

Select and Place: Select and Place:



Features	Answer Area	
change data capture	The name of all stored procedures must start with "usp_"always	Feature
the CHECK constraint	All distribution statistics must be updated daily.	Feature
Extended Event		
a maintenance plan		
Policy-Based Management		

Correct Answer:

Features	Answer Area	
change data capture	The name of all stored procedures must start with "usp_"always	Policy-Based Management
the CHECK constraint	All distribution statistics must be updated daily.	a maintenance plan
Extended Event		

* Policy-Based Management

Each Stored Procedure that are created and that will be created has to have prefix "USP_".

* Maintenance plans create a workflow of the tasks required to make sure that your database is optimized, regularly backed up, and free of inconsistencies.

QUESTION 3

You need to recommend a solution that addresses the backup issue. The solution must minimize the amount of development effort. What should you include in the recommendation?

- A. Indexed views
- B. Filegroups
- C. Table partitioning
- D. Indexes

Correct Answer: B



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Backup Issues

Customers who have large amounts of historical purchase order data report that backup time is unacceptable.

*

For very large databases (and by that, I mean, at least 500gb, but more like 5-10tb or more), it can become too expensive to regularly run a straight full backup . So, where needed, you can choose to backup smaller pieces of the database

by choosing to back up one of the files or file groups that make up a database.

QUESTION 4

You need to distribute functionality across the three servers.

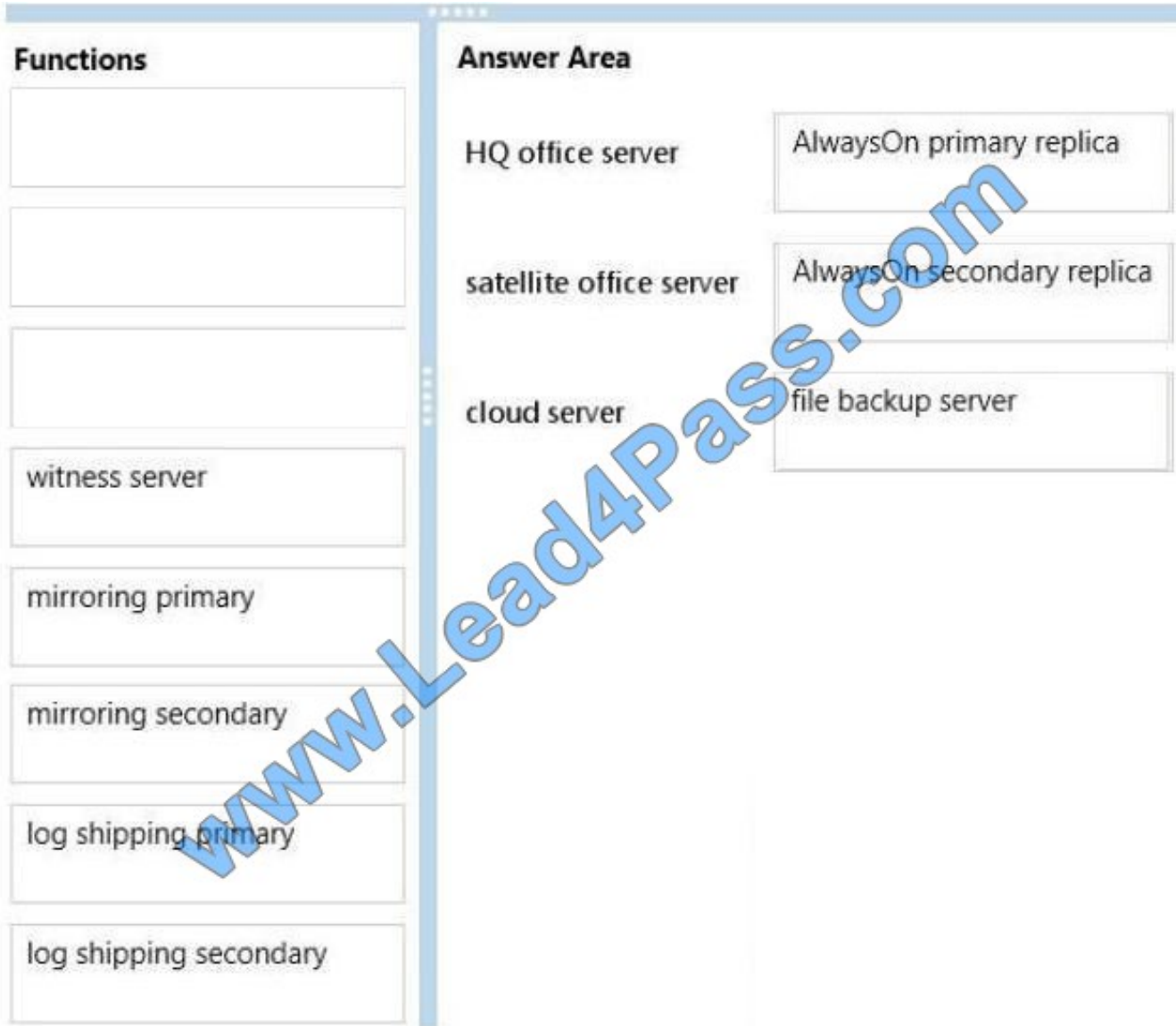
Which function should you assign to each server? To answer, drag the appropriate functions to the correct servers. Each function may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:



Functions	Answer Area
AlwaysOn primary replica	HQ office server <input type="text" value="Function"/>
AlwaysOn secondary replica	satellite office server <input type="text" value="Function"/>
file backup server	cloud server <input type="text" value="Function"/>
witness server	
mirroring primary	
mirroring secondary	
log shipping primary	
log shipping secondary	

Correct Answer:



Note:

* Scenario: The current nightly backups have been failing due to insufficient space on the available drives and manual drive cleanup often needing to happen to get past the errors. Additional space will not be made available for backups on the HQ or satellite servers.

QUESTION 5

You need to recommend a solution that addresses the concurrency requirement. What should you recommend?

- A. Break each stored procedure into two separate procedures, one that changes Sales.Table1 and one that changes Sales.Table2.
- B. Make calls to Sales.Proc1 and Sales.Proc2 synchronously.
- C. Call the stored procedures in a Distributed Transaction Coordinator (DTC) transaction.



D. Modify the stored procedures to update tables in the same order for all of the stored procedures.

Correct Answer: D

* Concurrency Requirements

You must reduce the likelihood of deadlocks occurring when Sales.Proc1 and Sales.Proc2 execute.

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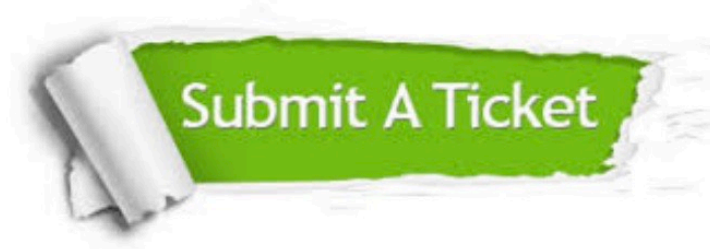
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